

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **05139726 A**(43) Date of publication of application: **08.06.93**

(51) Int. Cl.

C01F 7/02
C09C 1/40
C09K 3/16

(21) Application number: **03334113**(22) Date of filing: **24.11.91**(71) Applicant: **MITSUBISHI MATERIALS CORP**(72) Inventor: **NAKAMURA AKIHIRO**
NISHIHARA AKIRA(54) **HYDROPHOBIC ALUMINA**

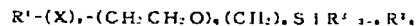
triboelectric charge to iron.

(57) Abstract:

COPYRIGHT: (C)1993,JPO&Japio

PURPOSE: To improve hydrophobic property by treating Al_2O_3 powder with a fluorine subst. silane compd. and organopolysiloxane each represented by a specified formula.

CONSTITUTION: A fluorine subst. silane compd. represented by formula I, organopolysiloxane represented by formula II and an amine catalyst are diluted with a solvent in a prescribed weight ratio to prepare a treating agent. In the formula I, R^1 is 1-10C fluorine subst. alkyl, X is SO_2NR^4 (R^4 is H or 1-5C alkyl), CONR^4 , CO_2 , or CH_2O , R^2 is 1-5C alkyl, R^3 is Cl, Br or 1-5C alkoxy, (p) is 0 or 1, (q) is 1-10, (m) is 2-5 and (n) is 1-3. In the formula II, each of R and R^6 is an org. substituent or hydrodiene, R^5 and R^6 are not simultaneously methyl, (a) is 0 or a positive integer, (b) is a positive integer, and in the case of (a)=0, R^5 and R^6 are not simultaneously hydrodiene. The treating agent is sprayed on Al_2O_3 powder having 50-200 m^2/g specific surface area and the powder is heated to 100-300°C to obtain Al_2O_3 powder having ≈ 50 hydrophobic degree and 0-40 $\mu\text{m}/\text{g}$ charges by



I



II